

--21. (new) A method of use of a softener composition for enhancing the abrasion resistance of textile fibre materials in domestic applications, which comprises treating washed textile fibre materials with a softener composition which comprises:

A) a fabric softener;

B) at least one additive selected from the group consisting of

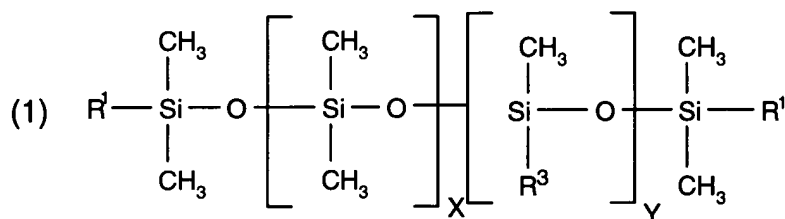
a) a polyethylene, or a mixture thereof,

b) a fatty acid alkanolamide, or a mixture thereof,

c) a polysilicic acid, or a mixture thereof, and

d) a polyurethane, or a mixture thereof; and

C) a dispersed polyorganosiloxane of formula (1)

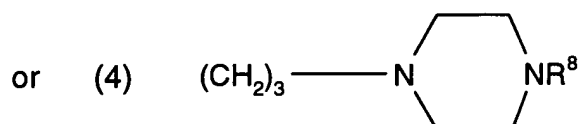
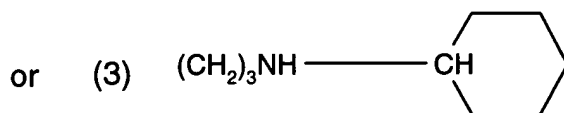
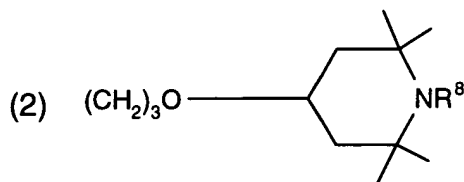


wherein

R¹ is OH, OR² or CH₃,

R² is CH₃ or CH₂CH₃,

R³ is C₁-C₂₀alkoxy, CH₃, CH₂CHR⁴CH₂NHR⁵, or CH₂CHR⁴CH₂N(COCH₃)R⁵,



R⁴ is H or CH₃,

R⁵ is H, CH₂CH₂NHR⁶, C(=O)-R⁷ or (CH₂)_z-CH₃,

z is 0 to 7,

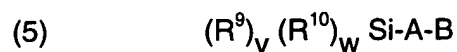
R^6 is H or $C(=O)-R^7$,

R^7 is CH_3 , CH_2CH_3 or $CH_2CH_2CH_2OH$,

R^8 is H or CH_3 , and

the sum of X and Y is 40 to 4000;

or a dispersed polyorganosiloxane which comprises at least one unit of the formula (5)



A,

wherein

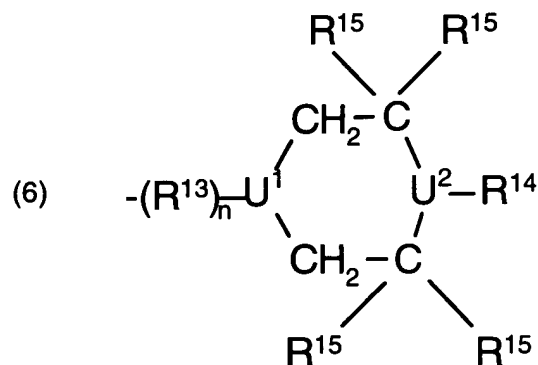
R^9 is CH_3 , CH_3CH_2 or phenyl,

R^{10} is $-O-Si$ or $-O-R^9$,

the sum of v and w equals 3, and v does not equal 3,

$A = -CH_2CH(R^{11})(CH_2)_k$,

$B = -NR^{12}((CH_2)_l-NH)_mR^{12}$ or



n is 0 or 1,

when n is 0, U^1 is N, when n is 1, U^1 is CH,

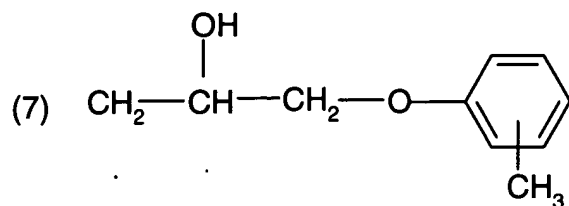
l is 2 to 8,

k is 0 to 6,

m is 0 to 3,

R^{11} is H or CH_3 ,

R^{12} is H, $C(=O)-R^{16}$, $CH_2(CH_2)_pCH_3$ or



p is 0 to 6,

R¹³ is NH, O, OCH₂CH(OH)CH₂N(butyl) or OOCN(butyl),

R¹⁴ is H, linear or branched C₁-C₄ alkyl, phenyl or CH₂CH(OH)CH₃,

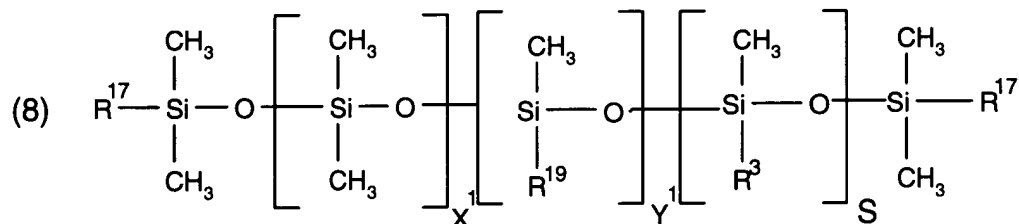
R¹⁵ is H or linear or branched C₁-C₄alkyl,

R¹⁶ is CH₃, CH₂CH₃ or (CH₂)_qOH,

q is 1 to 6, and

U² is N or CH;

or a dispersed polyorganosiloxane of the formula (8)



wherein

R³ is as previously defined,

R¹⁷ is OH, OR¹⁸ or CH₃,

R¹⁸ is CH₃ or CH₂CH₃,

R¹⁹ is R²⁰-(EO)_m-(PO)_n-R²¹,

m is 3 to 25,

n is 0 to 10,

R²⁰ is the direct bond or CH₂CH(R²²)(CH₂)_pR²³,

p is 1 to 4,

R²¹ is H, R²⁴, CH₂CH(R²²)NH₂ or CH(R²²)CH₂NH₂,

R²² is H or CH₃,

R²³ is O or NH,

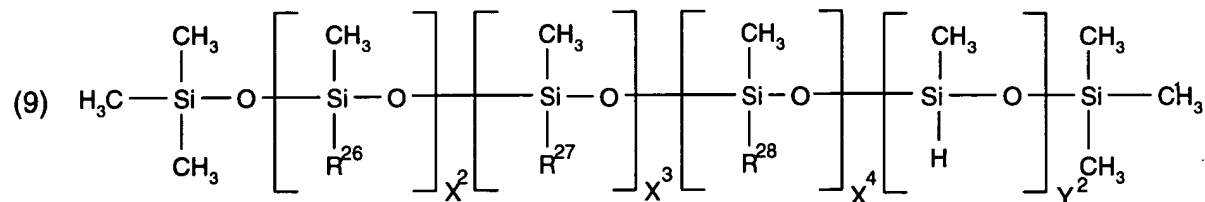
R²⁴ is linear or branched C₁-C₈ alkyl or Si(R²⁵)₃,

R²⁵ is R²⁴, OCH₃ or OCH₂CH₃,

EO is -CH₂CH₂O- ,

PO is $-\text{CH}(\text{CH}_3)\text{CH}_2\text{O}-$ or $-\text{CH}_2\text{CH}(\text{CH}_3)\text{O}-$, and
the sum of X_1, Y_1 and S is 20 to 1500;

or a dispersed polyorganosiloxane of the formula (9)



wherein

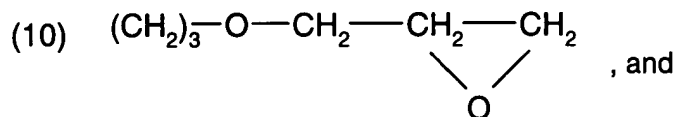
R^{26} is linear or branched $\text{C}_1\text{-C}_{20}$ alkoxy, $\text{CH}_2\text{CH}(\text{R}^4)\text{R}^{29}$;

R^4 is as previously defined,

R^{29} is linear or branched $\text{C}_1\text{-C}_{20}$ alkyl,

R^{27} is aryl, aryl substituted by linear or branched $\text{C}_1\text{-C}_{10}$ alkyl, linear or branched $\text{C}_1\text{-C}_{20}$ alkyl substituted by aryl or aryl substituted by linear or branched $\text{C}_1\text{-C}_{10}$ alkyl,

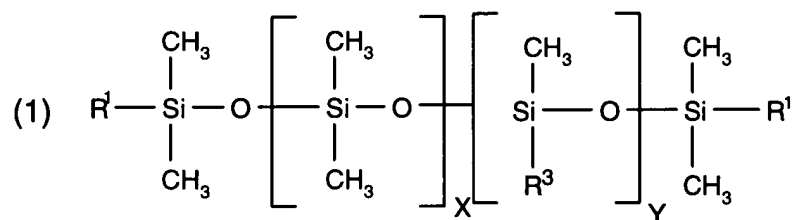
R^{28} is



the sum of X^2, X^3, X^4 and Y^2 is 20 to 1500, wherein X^3, X^4 and Y^2 may be independently of each other 0;

or a mixture thereof.

22. (new) A method of use according to claim 21 wherein the polyorganosiloxane is of formula (1):

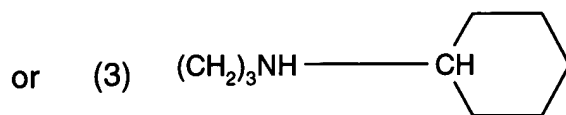
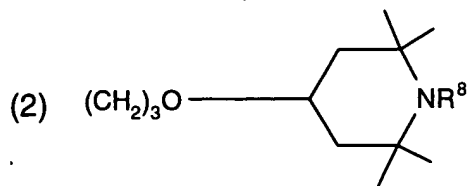


wherein

R^1 is OH, OR^2 or CH_3 ,

R^2 is CH_3 or CH_2CH_3 ,

R^3 is $\text{C}_1\text{-C}_{20}$ alkoxy, CH_3 , $\text{CH}_2\text{CHR}^4\text{CH}_2\text{NHR}^5$, or



R^4 is H or CH_3 ,

R^5 is H, $\text{CH}_2\text{CH}_2\text{NHR}^6$, $\text{C}(=\text{O})-\text{R}^7$,

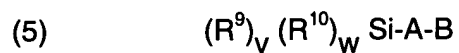
R^6 is H or $\text{C}(=\text{O})-\text{R}^7$,

R^7 is CH_3 , CH_2CH_3 or $\text{CH}_2\text{CH}_2\text{CH}_2\text{OH}$,

R^8 is H or CH_3 , and

the sum of X and Y is 40 to 1500;

or a dispersed polyorganosiloxane which comprises at least one unit of the formula (5);



wherein

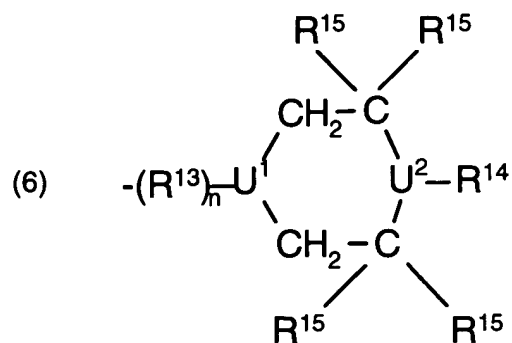
R^9 is CH_3 or CH_3CH_2 ,

R^{10} is $-\text{O}-\text{Si}$ or $-\text{O}-\text{R}^9$,

the sum of v and w equals 3, and v does not equal 3,

$\text{A} = -\text{CH}_2\text{CH}(\text{R}^{11})(\text{CH}_2)_k$,

$\text{B} =$



n is 1,

U¹ is CH,

k is 0 to 6,

R¹¹ is H or CH₃,

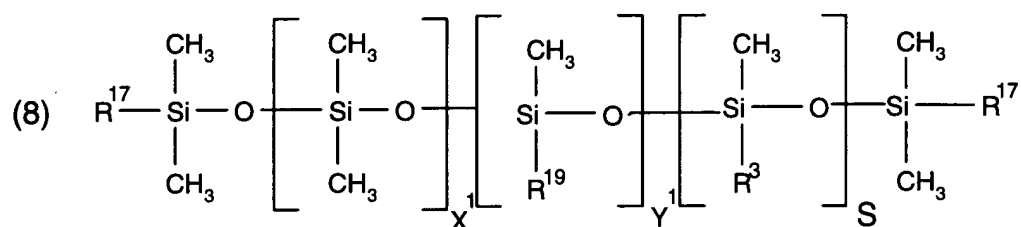
R¹³ is OOCN(butyl),

R¹⁴ is H, linear C₁-C₄alkyl or phenyl,

R¹⁵ is H or linear C₁-C₄alkyl, and

U² is N;

or a dispersed polyorganosiloxane of the formula (8);



wherein

R³ is as previously defined,

R¹⁷ is OH, OR¹⁸ or CH₃,

R¹⁸ is CH₃ or CH₂CH₃,

R¹⁹ is R²⁰-(EO)_m-(PO)_n-R²¹,

m is 3 to 25,

n is 0 to 10,

R²⁰ is the direct bond or CH₂CH(R²²)(CH₂)_pR²³,

p is 1 to 4,

R²¹ is H, R²⁴, CH₂CH(R²²)NH₂ or CH(R²²)CH₂NH₂,

R²² is H or CH₃,

R²³ is O or NH,

R²⁴ is linear or branched C₁-C₃alkyl or Si(R²⁵)₃,

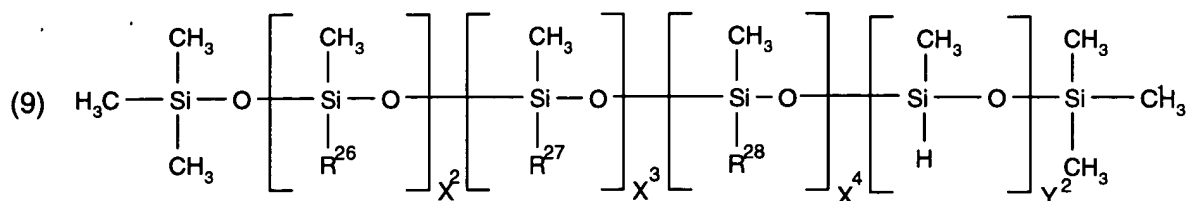
R²⁵ is R²⁴, OCH₃ or OCH₂CH₃,

EO is -CH₂CH₂O-,

PO is -CH(CH₃)CH₂O- or -CH₂CH(CH₃)O-, and

the sum of X₁, Y₁ and S is 40 to 1500;

or a dispersed polyorganosiloxane of the formula (9);



wherein

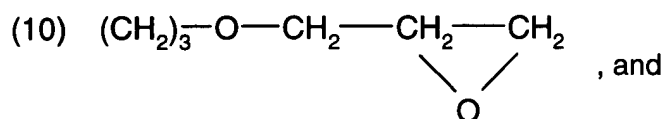
R^{26} is linear $\text{C}_1\text{-C}_{20}$ alkoxy,

R^4 is as previously defined,

R^{29} is linear $\text{C}_1\text{-C}_{20}$ alkyl,

R^{27} is, $\text{CH}_2\text{CH}(\text{R}^4)$ phenyl ,

R^{28} is



the sum of X^2 , X^3 , X^4 and Y^2 is 40 to 1500, wherein X^3 , X^4 and Y^2 may be independently of each other 0;

or a mixture thereof.

23. **(new)** A method of use according to claim 21 wherein a polyorganosiloxane of formula (1) is used, wherein

R^1 is OH or CH_3 ,

R^3 is CH_3 , $\text{C}_{10}\text{-C}_{20}$ alkoxy or $\text{CH}_2\text{CHR}^4\text{CH}_2\text{NHR}^5$,

R^4 is H,

R^5 is H or $\text{CH}_2\text{CH}_2\text{NHR}^6$,

R^6 is H or $\text{C}(=\text{O})\text{-R}^7$, and

R^7 is CH_3 , CH_2CH_3 or $\text{CH}_2\text{CH}_2\text{CH}_2\text{OH}$.

24. **(new)** A method of use according to claim 21 wherein a polyorganosiloxane of formula (8) is used, wherein

R^3 is CH_3 , $\text{C}_{10}\text{-C}_{20}$ alkoxy or $\text{CH}_2\text{CHR}^4\text{CH}_2\text{NHR}^5$,

R^4 is H,

R^5 is H or $\text{CH}_2\text{CH}_2\text{NHR}^6$,

R^6 is H or $\text{C}(=\text{O})\text{-R}^7$,

R^7 is CH_2CH_3 , $\text{CH}_2\text{CH}_2\text{CH}_2\text{OH}$ or CH_3 , and

R_{17} is CH_3 or OH .

25. **(new)** A method of use according to claim 21 wherein a polyorganosiloxane of formula (9) is used, wherein

R^{26} is $\text{CH}_2\text{CH}(\text{R}^4)\text{R}^{29}$,

R^4 is H, and

R^{27} is 2-phenylpropyl.

26. **(new)** A method of use according to claim 21 wherein the composition is a liquid aqueous composition.

27. **(new)** A method of use according to claim 21 wherein the composition is used in a tumble dryer sheet composition.

28. **(new)** A method of use according to claim 21 in which the polyorganosiloxane is nonionic or cationic.

29. **(new)** A method of use according to claim 21 in which the composition has a solids content of 5 to 70 % at a temperature of 120°C .

30. **(new)** A method of use according to claim 21 in which the composition contains a water content of 25 to 90 % by weight based on the total weight of the composition.

31. **(new)** A method of use according to claim 21 in which the composition has a pH value from 2 to 7.

32. **(new)** A method of use according to claim 21 in which the nitrogen content of the aqueous emulsion due to the polyorganosiloxane is from 0 to 0.25 % with respect to the silicon content.

33. **(new)** A method of use according to claim 21 wherein the composition comprises a polyethylene, a fatty acid alkanolamide or a polyurethane.

34. (new) A method of use according to claim 21 wherein the composition comprises a polyethylene or a fatty acid alkanolamide.

35. (new) A method of use according to claim 21 wherein the composition comprises a fatty acid alkanolamide.

36. (new) A method of use according to claim 21 wherein the composition comprises a polyethylene.

4, 37. (new) A method of use according to claim 21 wherein the composition is prepared by mixing a preformulated fabric softener with an emulsion comprising the polyorganosiloxane and the additive.

38. (new) A method of use according to claim 21 wherein the composition has a clear appearance.

39. (new) A method of use according to claim 21 in which the composition comprises:

- a) 0.01 to 70 % by weight, based on the total weight of the composition, of a polyorganosiloxane, or a mixture thereof;
- b) 0.2 to 25 % by weight based on the total weight of an emulsifier, or a mixture thereof;
- c) 0.01 to 15 % by weight based on the total weight of at least one additive selected from the group consisting of a polyethylene, a fatty acid alkanolamide, a polysilicic acid and a polyurethane, and
- d) water to 100 %.

40. (new) A tumble dryer sheet comprising a composition as defined in claim 21.--
